NORTHROP GRUMMAN
Mission Systems

IMACS Web Enablement

Interservice Material Accounting and Control System

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2004 Ogden, UT
CMT
20-22 Jul 2004

DEFINING THE FUTURE

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Need to Web Enablement IMACS

- Without additional funding available outside of Services budgets

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Advantages of Web Enablement

- Web Browser Access
- Improved Navigation
- Increased Application User Friendliness
- Thin Client
- Availability of Web Enhanced Features
- Reduce Communication Issues
- Reduce Security Issues
- Maintain Parallel Client/Server Environment

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Advantages of Web Enablement (Continued)

- Increased user productivity
- Potential increased user base
- Software upgrades transparent to user
- Faster deployment of application updates
- Assist in moving toward DII/COE, PKI compliance
- Compatible with NMCI environment

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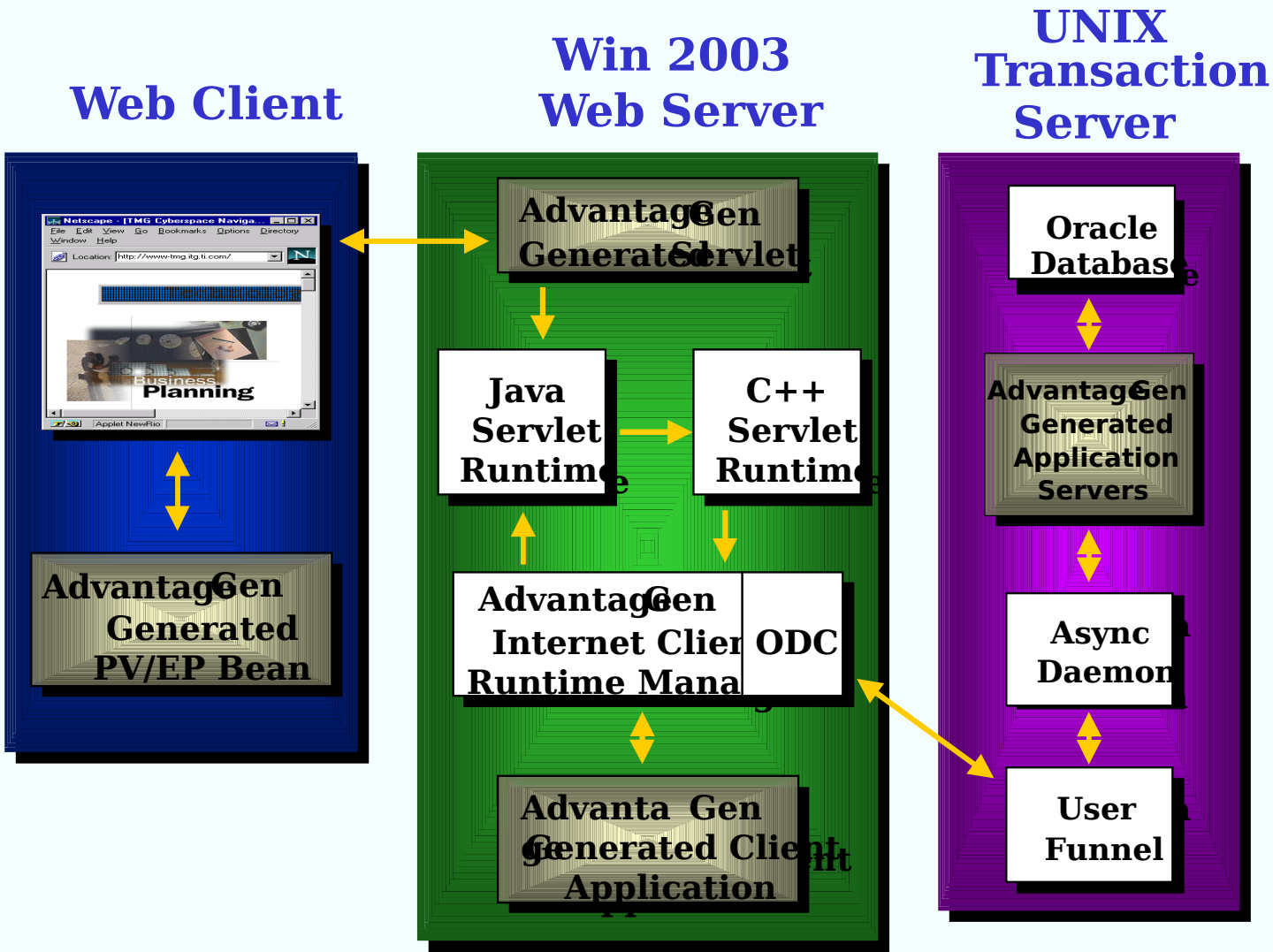
IMACS Production Web Environment

Advantage Gen Environment



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IMACS Production Web Environment

Oracle Environment

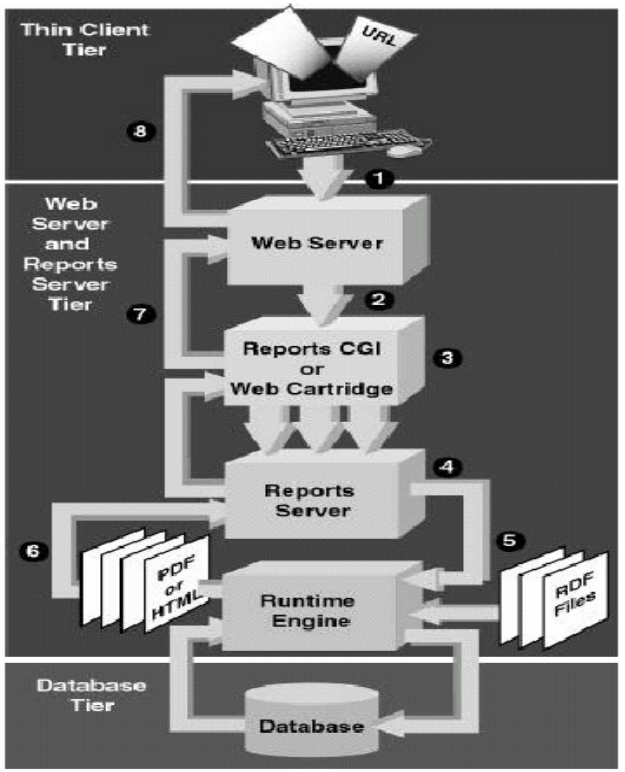

Figure 1: Web architecture, three machine configuration

Oracle Reports Release 6.0: Reports Server Configuration, Technical White Paper
July, 1999

- Client request report through browser by typing URL. The Web passes the URL to the Web server.
- The Web server invokes Reports CGI.
- The Reports CGI parses the request and submits it to the Reports Server.
- If the request includes time tolerance, Report Server will check the output cache before the report executes.
- The Report Server receives and queues the job request. It sends the command line to runtime engine when one becomes available.
- The runtime engine executes the report.
- The report CGI receives the report output from the report server and sends it to the Web Server.
- The Web server sends the report to Web browser.

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Web Enablement Development Environment

- Client environment established
  - Client Workstations acquired
    - Upgrades complete
  - Client Software installed
    - Advantage Gen Web development software
    - Weblogic software
    - Editing tools

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Web Enablement Development Environment

- **HP Server environment established**
  - **Hardware**
    - HP9000 rp5470
  - **Software**
    - Oracle 9i
- **Web Server in acquisition**
  - **Hardware**
    - Windows Web Server
  - **Software**
    - Weblogic Server software

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Web Enablement Development Tasks

- **Web Study Started**
  - **Convert application**
    - **Much of process automated through CA Advantage Gen tool**
    - **What does not convert must be manually converted**
  - **Customize application**
    - **Customize the “look and feel” of the application**
  - **Unit software testing**
  - **System software testing**
  - **User acceptance test software**

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Web Enablement Tasks – Production Environment

- **Production environment implementation and deployment**
  - **Acquire/upgrade hardware/software**
  - **Install and configure hardware/software**
  - **Establish communication to Web Server**
  - **Migrate/publish IMACS Web application software**

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Web Enablement Status

- Latest version of CA Web Client enablement Tool acquired
- Client WCE software has been installed on a test w/s
- Hardware/software upgrades nearing completion
- Complete development environment preparation
- Plan and coordinate production environment

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IMACS Web Client Enablement

- Status of Web Development Environment
  - Web Development environment completion 3rd quarter 2004
  - Environment has been established to begin Web Development Study
  - Positioned to begin full Web study with web server acquistion

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IMACS Web Client Enablement

- Possible to continue Web Development as Primary Enhancement
  - Continue Web development after Web study
  - Fund Web development using budgeted enhancement dollars

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